

P/N: 89401-0203

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Website

<http://www.flir.com>

Customer support

<http://support.flir.com>

Disclaimer

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General description	
<p>The FLIR Cx5 is certified for use in many explosive environments, eliminating the need to acquire hot work permits due to gas, vapor, and dust, while making T-Class surveys quick and easy.</p> <p>With FLIR MSX® (Multi-Spectral Dynamic Imaging) and 1-Touch Level/Span, the Cx5 can help you identify potential problems quickly to improve plant performance. The 3.5-inch touchscreen interface is simple to use, and 160 × 120 thermal resolution gives you accurate temperature measurement of nearby targets. Built-in FLIR Ignite™ cloud service provides direct data transfer, storage, and backup, so images are always available and securely stored on all your devices. With the FLIR Cx5 in your toolbox, you'll always be ready to investigate mechanical and electrical equipment around your production site.</p>	
Imaging and optical data	
IR resolution	160 × 120 pixels
Thermal sensitivity/NETD	< 70 mK
Field of view (FOV)	54° × 42°
Minimum focus distance	<ul style="list-style-type: none"> Thermal: 0.1 m (0.32 ft) MSX: 0.3 m (0.98 ft)
Spatial resolution (IFOV)	6.3 mrad/pixel
F-number	1.1
Image frequency	8.7 Hz
Focus	Focus free
Digital zoom	Yes, zoom pinch, 1–4× continuous
Detector data	
Detector type	Focal plane array, uncooled microbolometer
Spectral range	8–14 μm
Detector pitch	12 μm
Image presentation	
Display resolution	640 × 480 pixels
Screen size	3.5 in
Aspect ratio	4:3
Auto orientation	Yes
Touch screen	Yes, capacitive

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Image presentation	
Display technology	IPS
Image adjustment	<ul style="list-style-type: none"> • Automatic level and span • Manual level and span • 1-Touch level and span
Image modes	<ul style="list-style-type: none"> • Infrared image • Visual image • MSX • Picture in picture (IR area on visual image)
Gallery	Yes, incl. thumbnails and custom folder structure
Measurement	
Object temperature range	-20 to 400°C (-4 to 752°F)
Accuracy at ambient temp. 15 to 35°C (59 to 95° F) and object temp. above 0°C (32°F)	<ul style="list-style-type: none"> • 0 to 100°C (32 to 212°F): ±5°C (±9°F) • 100 to 400°C (212 to 752°F): ±5%
Measurement analysis	
Measurement functions	<ul style="list-style-type: none"> • Spot • Box with max./min.
Measurements correction	<ul style="list-style-type: none"> • Emissivity; matt/semi-matt/semi-glossy + custom value • Reflected apparent temperature <ul style="list-style-type: none"> ◦ Atmospheric compensation
Color palettes	<ul style="list-style-type: none"> • Iron • Gray • Rainbow • Arctic • Lava • Rainbow HC
Set-up	
Set-up commands	<ul style="list-style-type: none"> • Local adaptation of units, language, date and time formats • Screen brightness (high, medium, low)
Languages	Arabic, Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, simplified Chinese, Spanish, Swedish, traditional Chinese, Turkish
Service functions	
Camera software update	<ul style="list-style-type: none"> • Automatic over Wi-Fi • USB via computer
Storage of images	
Storage media	Internal memory and onboard FLIR Ignite cloud connectivity (with Wi-Fi)
Image storage capacity	> 5000 sets of images
Image file format	Standard JPEG, 14-bit measurement data included
Image annotations	
Text	Soft keyboard on touchscreen, auto-prompt for note when image is saved

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Video streaming	
Non-radiometric video streaming	Yes; MSX, Thermal, Visual, Picture in Picture. USB Video Class colorized uncompressed with overlay 9 Hz.
Digital camera	
Resolution	5 MP
Focus	Fixed
Field of view	71.5 ° × 56° (84° diagonal)
Video lamp	Yes
Data communication interfaces	
Wi-Fi	802.11 a/ac/b/g/n (2.4 and 5 GHz) (5 GHz only for indoor use in Japan and Canada)
USB	USB 2.0, Type-C connector
Bluetooth	PAN
Radio	
Wi-Fi	<ul style="list-style-type: none"> • Standard: 802.11 a/b/g/n (HT20) • Frequency range: <ul style="list-style-type: none"> ◦ 2401–2473 MHz ◦ 5150–5250 MHz • Max. output power: 15 dBm
Bluetooth + EDR	<ul style="list-style-type: none"> • Frequency range: <ul style="list-style-type: none"> ◦ 2400–2484 MHz • Max. output power: 10 dBm
Power system	
Battery type	Rechargeable Li ion battery (built-in)
Battery voltage	3.7 V
Battery capacity	1800 mAh
Battery operating time	4 hours
Battery charge life	>500 cycles
Charging system	USB-C (1 A)
Charging time	2 hours
Charging temperature	35°C (95°F)
External power operation	5 V, USB-C
Power management	Adjustable stand-by and automatic shut-down
Battery documents	For documents like MSDS and UN38.3 test reports/summaries, see: https://support.flir.com/resources/msds
Environmental data	
Operating temperature range	–10°C to 50°C (14°F to 122°F)
Storage temperature range	–40°C to 70°C (–40°F to 158°F)
EMC	<ul style="list-style-type: none"> • EN 301 487-1 • EN 301 489-17 • FCC 47 CFR Part 15 Class B
Magnetic fields	EN 61000-4-8 level 5

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Environmental data	
Radio spectrum	<ul style="list-style-type: none"> ETSI EN 300 328 EN 301 489 FCC Title 47 CFR Part 15 RSS-247 Issue 2
Battery regulations	<ul style="list-style-type: none"> UL 1642 EN 62133 ed 2
Battery charging efficiency	<ul style="list-style-type: none"> BC Title 20 10 CFR Section 430.23 (aa)
Drop	Designed for 2 m (6.56 ft)
Humidity (operating and storage)	ATEX Directive 2014/34/EU
Relative humidity	
Encapsulation	
Shock	
Vibration	
Safety	
Environmental safety	
Certifications	<ul style="list-style-type: none"> EN IEC 60079-0:2018 EN IEC 60079-15:2019 EN 60079-31:2014 IEC 60079-0:2017 IEC 60079-15:2017 IEC 60079-31:2013
Certificates and declarations of conformity	See: https://support.flir.com/resources/cx/
Physical data	
Weight	<ul style="list-style-type: none"> ExN case: 0.49 kg (1.08 lb) ExN case + FLIR C5 camera: 0.69 kg (1.52 lb)
Size (L x W x H)	168 x 112 x 42 mm (6.6 x 4.4 x 1.7 in)
Tripod mounting	UNC 1/4"-20
Housing material	Aluminum
Color	Black
Warranty and service	
Warranty	http://www.flir.com/warranty/
Shipping information	
Packaging, type	Cardboard box
Packaging, contents	<ul style="list-style-type: none"> Cx5 FLIR Thermal Studio Starter Wrist strap lanyard USB cable Restricted breathing test port Pouch Printed documentation
Packaging, weight	0.825 kg (including Cx5) (1.82 lb)
Packaging, size	205 x 61 x 155 mm (8.1 x 2.4 x 6.1 in)
EAN-13	4743254006119
UPC-12	845188026998
Country of origin	<ul style="list-style-type: none"> ExN case: United Kingdom FLIR C5 camera: Estonia



FLIR Cx5

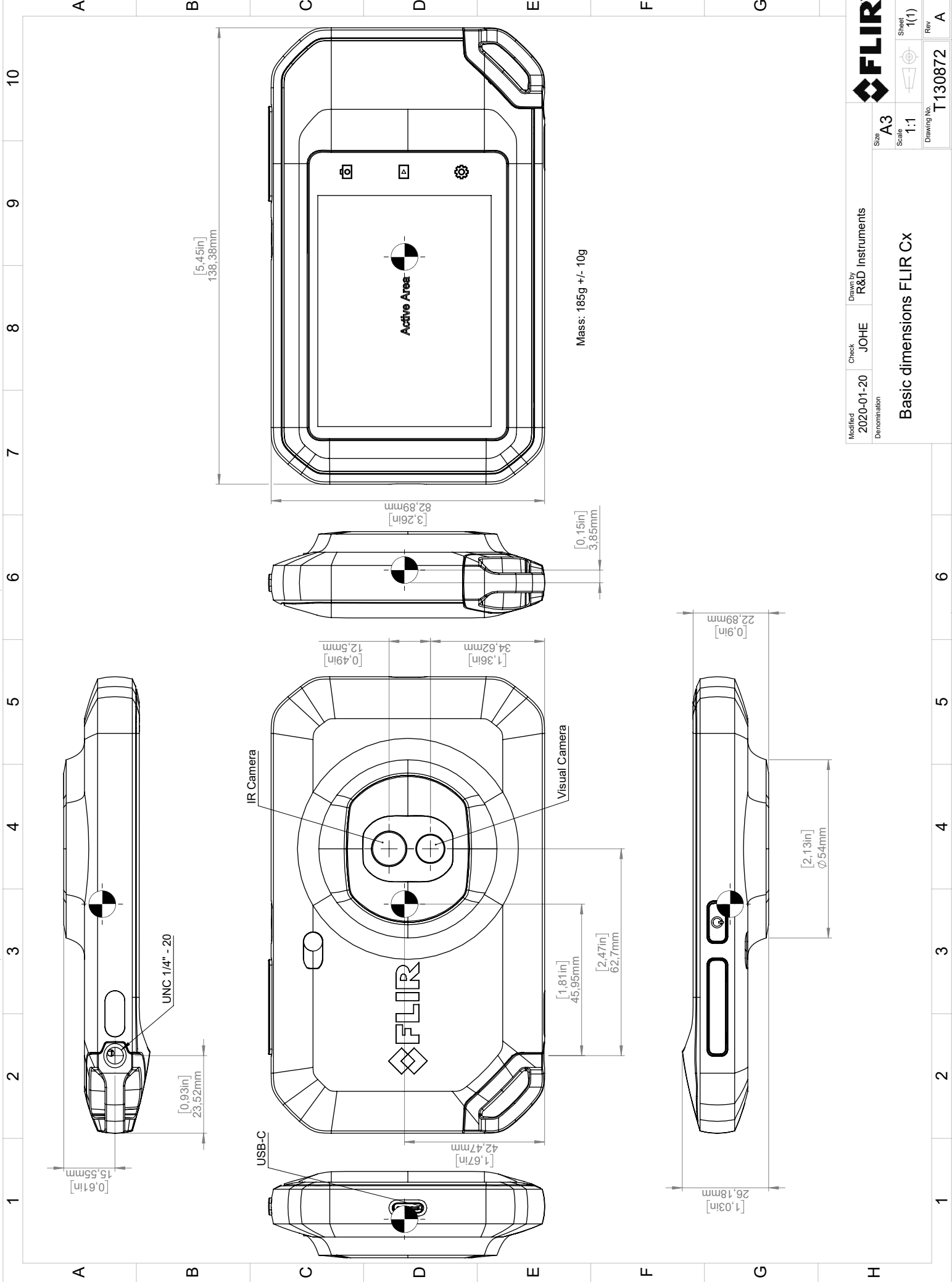
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Supplies & accessories:

- T911940ACC; USB 2.0 A to USB Type-C cable, 1.0 m
- T199871; Traceable Calibration for C5
- T300083; FLIR Thermal Studio Pro, Perpetual license
- T300341; FLIR Thermal Studio Standard, 1 Year Subscription
- T300258; FLIR Thermal Studio Standard, Perpetual license



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2020-01-20	JOHE	R&D Instruments	
Denomination			
Basic dimensions FLIR Cx			Sheet 1(1)
Size	Scale	Drawing No.	Rev
A3	1:1	T130872	A